



**UNITED STATES DEPARTMENT OF COMMERCE
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/112,434	07/09/98	MOON	J MOON-MS9802

LM31/0301
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PATENT TRADEMARK AND COPYRIGHT MATTERS
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EXAMINER

SHERALI, I

ART UNIT

PAPER NUMBER

2721/

DATE MAILED:

03/01/00

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No.
09/112,434

Applicant(s)
Moon et al.

Examiner
ISHRAT SHERALI

Group Art Unit
2721



☐ Responsive to communication(s) filed on _____.

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, **prosecution as to the merits is closed** in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire 3 month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

Disposition of Claims

☒ Claim(s) 1-23 is/are pending in the application.

Of the above, claim(s) _____ is/are withdrawn from consideration.

☒ Claim(s) 1-14 is/are allowed.

☒ Claim(s) 15, 16, and 23 is/are rejected.

☒ Claim(s) 17-22 is/are objected to.

☐ Claims _____ are subject to restriction or election requirement.

Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on _____ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on _____ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

☒ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☒ All ☐ Some* ☐ None of the CERTIFIED copies of the priority documents have been
☒ received.

☐ received in Application No. (Series Code/Serial Number) _____.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

*Certified copies not received: _____

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

☒ Notice of References Cited, PTO-892

☒ Information Disclosure Statement(s), PTO-1449, Paper No(s). 4

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. § 119, for which paper have been placed of record in the file.

Drawings

2. The drawings are objected by draftsman, see attached form PTO-948

Claim Rejections - 35 U.S.C. § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 (b) that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

4. Claims 15-16 and 23 are rejected under 35 U.S.C. 102 (b) as being anticipated by Fandrianto et al. (5,594,813).

Regarding claims 15 and 23, Fandrianto discloses dividing binary picture into blocks (Note: figure 3B and 4 picture is divided into blocks column 5 lines 51-55); executing bordering for blocks outputted from block dividing means (Note: figure 1 col. 3 lines 25-35 displacement of the search block 22 eight pixels to the left (block 26.1) and seven pixels to the right (block 26.2) and note: figure 4 col. 5 lines 50-65 through col. 6 lines 1-5 full X block 70 includes pixels the best match search block 71 are copied into X block 70 to allow interpolation); interpolating horizontally pixels of the blocks outputted from bordering means (note: figure 4

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col. 6 lines 18-22 the block A is formed by progressive horizontal interpolation of the X block 70); vertically interpolating pixels of the blocks outputted from horizontal interpolating means (col. 6 lines 35-40 note: figure 4 the block B is formed by progressive interpolation of the X block 70).

Regarding claim 16, Fandrianto discloses the bordering with pixels brought from an adjacent block of a current block (figure 4 col. 5 lines 50-65 through col. 6 lines 1-5 full X block 70 includes pixels the best match search block 71 are copied into X block 70 to allow interpolation).

Allowable Subject Matter

5. Claims 1-14 are allowed over prior art of record.

Claims 17-22 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all limitations of the base claim and intervening claims.

Other prior art cited

6 The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Cho (US 6,002,812) discloses interpolating method for binary image.

Hiratani (US 5,960,117) discloses adaptive arithmetic coding.

Cho (US 5,933,105) discloses context-based arithmetic coding.

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Contact information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ishrat Sherali whose telephone number is (703) 308-9589.

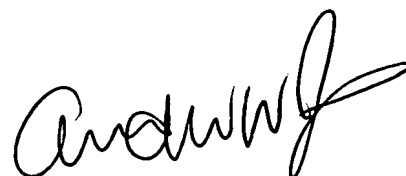
Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.



Ishrat Sherali

Patent Examiner

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**ANDREW W. JOHNS
PRIMARY EXAMINER**

February 27, 2000